



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

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Secretary of Natural Resources

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David K. Paylor
Director

Jeffery Steers
Regional Director

December 29, 2017

Mrs. Pamela Faggert
Vice President and Chief Environmental Officer
Dominion Energy
5000 Dominion Boulevard
Glen Allen, VA 23060

Location: County of Surry
Registration No.: PRO50336

Dear Mrs. Faggert:

Attached is a renewal Title V permit with several minor amendments to operate the Fossil Fuel Electric Power Generation Facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution. This Title V permit renewal incorporates provisions from the permits dated September 27, 1993, and June 30, 2011, November 10, 2011, October 30, 2017 and supersede the Title V Federal Operating Permit issued on March 30, 2004, amended on June 12, 2006 and last renewed on May 17, 2010.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all permit conditions carefully.

This approval to operate shall not relieve Dominion Energy of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

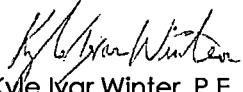
As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date of service of this decision (the date you actually received this decision or the date on which it was mailed to you, whichever occurred first), within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

In the event that this decision is served on you by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal.

If you have any questions concerning this permit, please call the Piedmont Regional Office at (804) 527-5020.

Sincerely,


Kyle Ivar Winter, P.E.
Deputy Regional Director

.. KIW/hll/50336_Title V cover letter_12292017FINAL.docx

Attachment: Permit

The following federal regulations can be found at:
www.gpo.gov/fdsys/search/showcitation.action
40 CFR 60, Subpart GG and IIII
40 CFR 63, Subpart ZZZZ

Ec: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III (electronic file submission)



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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, and Chapter 140 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, and 9 VAC 5-140-10 through 9 VAC 5-140-900 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Virginia Electric and Power Company
Facility Name:	Dominion - Gravel Neck/Surry Power Stations
Facility Location:	Route 650, Surry, Virginia
Registration Number:	50336
Permit Number:	PRO50336

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through VIII)

Federally Enforceable Requirements- Cross-State Air Pollution Control Rule (Section IX)

January 1, 2018
Effective Date

December 31, 2022
Expiration Date



Kyle Ivar Winter, P.E.
Deputy Regional Director

December 29, 2017
Signature Date

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I. Facility Information

Permittee

Virginia Electric and Power Company
5000 Dominion Boulevard
Glen Allen, VA 23060

Responsible Official

Fred Mladen
Site Vice President (Surry)

David Craymer (Gravel Neck)

Facility

Dominion Gravel Neck/Surry Power Stations
Surry Power Station
5570 Hog Island Road
Surry, VA 23883

Gravel Neck Power Station
5208 Hogg Island Road
Surry, VA 23883

Contact Person

Amanda B. Tornabene
Director, Environmental Services (Corporate Air, Gas, Infrastructure, and Power Delivery)
(804) 273-6304

County-Plant Identification Number: 51-181-0002

ORIS Code: 7032

Facility Description: NAICS 221112 - Fossil Fuel Electric Power Generation
SIC 4911- Electric Services

The Gravel Neck and Surry Power Stations are two separate electric power generating facilities under common ownership located on contiguous properties. The Surry Power Station is a nuclear powered electric generating facility. The two nuclear reactors are regulated by the US Nuclear Regulatory Commission (NRC). There are two 90.6 MMBtu/hr Babcock & Wilcox distillate oil-fired backup boilers at the Surry site, each capable of producing 80,000 pounds of steam per hour. These backup boilers were constructed in 1969 and are subject to the existing source regulations (9 VAC 5 Chapter 40). There are numerous emergency generators and fire pumps at the facility.

The Gravel Neck station is a natural gas and distillate oil-fired power plant consisting of six combustion turbines. Two of the turbines are Westinghouse units rated at 281.3 MMBtu/hr and 363.3 MMBtu/hr. These two units were constructed in 1970 and are equipped with diesel starter engines rated at 2.7 MMBtu/hr and 4.59 MMBtu/hr. These Westinghouse units are subject to the existing source regulations (9 VAC 5 Chapter 40). The remaining four turbines are General Electric (GE) Model PG7111 simple cycle combustion turbines constructed in 1989, each nominally rated at 1,308 MMBtu/hr (natural gas). The primary fuel for the GE turbines is natural gas and the secondary fuel is distillate oil. The four GE turbines are subject to 40 CFR 60 (NSPS) Subpart GG- *Standards of Performance for Stationary Gas Turbines* and operate under a NSR permit issued October 30, 2017. There are two emergency engines and two starter engines.

None of the units at the Dominion Gravel Neck / Surry Power Station are subject to the provisions of the Phase II Acid Rain Program (40 CFR Part 72). The facility is subject to the Cross State Air Pollution Rule (CSAPR) by the compliance date specified in 40 CFR 97, Subparts AAAAAA – DDDDD, as amended.

II. Emission Units

Equipment to be operated consists of the following:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Nominal Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled
Fuel Burning Equipment						
Surry Power Station						
ES - 101	EP-101	Unit A Babcock & Wilcox Oil-Fired Boiler	90.6 MMBtu/hr	NA	NA	NA
ES - 102	EP-102	Unit B Babcock & Wilcox Oil-Fired Boiler	90.6 MMBtu/hr	NA	NA	NA
IS - 101	IP-101	Caterpillar 3600 Series Diesel Backup Electric Generator* - 1969	4640 HP	NA	NA	NA
IS - 102 a	IP-102 a	Backup Electric Generator* - 1969	3950 HP	NA	NA	NA
IS - 102 b	IP-102 b	Backup Electric Generator* - 1969	3950 HP	NA	NA	NA
IS - 102 c	IP-102 c	Backup Electric Generator* - 1969	3950 HP	NA	NA	NA
IS - 103	IP-103	Cummins Diesel Backup Electric Generator* 1970	465 HP	NA	NA	NA
IS - 104 a	IP-104 a	Emergency Diesel-Powered Water Pump* 1970	261 HP	NA	NA	NA
IS - 104 b	IP-104 b	Emergency Diesel-Powered Water Pump* 1970	261 HP	NA	NA	NA
IS - 104 c	IP-104 c	Emergency Diesel-Powered Water Pump* 1970	261 HP	NA	NA	NA
IS - 105	IP-105	ISFSI Emergency Diesel Generator* 12/30/2005	250 HP	NA	NA	NA

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Nominal Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled
IS - 107 a	IP-107 a	Backup Air Compressor* - 1970	5 HP	NA	NA	NA
IS - 107 b	IP-107 b	Backup Air Compressor* - 1970	5 HP	NA	NA	NA
IS - 107 c	IP-107 c	Backup Air Compressor* - 1970	5 HP	NA	NA	NA
IS - 128		FAP Caterpillar Olympian Emergency Diesel Generator* - pre-2006	72 HP	NA	NA	NA
IS - 130	IP-130	Backup Diesel Air Compressor* 2012	560 HP	NA	NA	NA
IS - 132		Propane Emergency Generator* - pre-2006	65 HP	NA	NA	NA
IS - 135		Propane Emergency Generator* - pre-2006	45 HP	NA	NA	NA
ES - 103	IP-103	Cummins Diesel Backup Electric CAS Generator* - 2011	402 HP	NA	NA	NA
ES - 108	IP-108	Cummins Fire Pump - 2010	332 HP	NA	NA	NA
ES - 131	IP-131	Garage Emergency Diesel generator - Allis Chalmers* 1975	162 HP	NA	NA	NA
Gravel Neck Combustion Turbine Station						
ES - 1A (oil) ES - 1B(gas)	EP-1	Unit 1 - Westinghouse 191 Combustion Turbine	281.3 MMBtu/hr	NA	NA	NA
ES - 2A (oil) ES - 2B (gas)	EP-2	Unit 2 - Westinghouse 251 Combustion Turbine	363.3 MMBtu/hr	NA	NA	NA

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Nominal Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled
ES - 3A (gas) ES - 3B (oil)	EP-3	Unit 3 - General Electric PG 7111-EA Combustion Turbine	1308 MMBtu/hr (gas) 1246 MMBtu/hr (oil)	Water Injection	CD-3	NO _x
ES - 4A (gas) ES - 4B (oil)	EP-4	Unit 4 - General Electric PG 7111-EA Combustion Turbine	1308 MMBtu/hr (gas) 1246 MMBtu/hr (oil)	Water Injection	CD-4	NO _x
ES - 5A (gas) ES - 5B (oil)	EP-5	Unit 5 - General Electric PG 7111-EA Combustion Turbine	1308 MMBtu/hr (gas) 1246 MMBtu/hr (oil)	Water Injection	CD-5	NO _x
ES - 6A (gas) ES - 6B (oil)	EP-6	Unit 6 - General Electric PG 7111-EA Combustion Turbine	1308 MMBtu/hr (gas) 1246 MMBtu/hr (oil)	Water Injection	CD-6	NO _x
ES - 8	EP-8	Unit 2 Starter Diesel Engine – 01/01/1970**	600 HP (4.59 MMBtu/hr)	NA	NA	NA
ES - 9	EP-9	Unit 1 Starter Diesel Engine – 08/01/2006**	350 HP (2.7 MMBtu/hr)	NA	NA	NA
ES - 10	EP-10	Caterpillar 3516 C Emergency Diesel Generator* – 2014	2937 HP (20.6 MMBtu/hr)	NA	NA	NA
IS - 8		Emergency Generator* - pre-2006	268 HP (1.88 MMBtu/hr)	NA	NA	NA

The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

* Emergency engine (also called emergency engine/generator).

** Starter engine.

III. Fuel Burning Equipment Requirements – Surry and Gravel Neck Power Stations – Boilers (ES-101, ES-102), Emergency Engine (IS-101), Turbines (ES-1, ES-2, ES-3, ES-4, ES-5, ES-6)

A. Limitations

1. Emissions from the operation of the two (2) Babcock & Wilcox distillate oil-fired boilers (ES-101 and ES-102), each rated at 90.6 MMBtu/hr, shall not exceed the following:

	<u>lbs/MMBtu</u>	<u>lb/hr</u>
PM	0.28	
PM ₁₀	0.28	
SO ₂		478.4

(9 VAC 5-40-900 A.1.b, 9 VAC 5-40-930 A.1 and 9 VAC 5-80-110 B)

2. Visible emissions from the two (2) 90.6 MMBtu/hr Babcock & Wilcox distillate oil-fired boiler (ES-101 and ES-102) stacks shall not exceed 20 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). (9 VAC 5-40-940 and 9 VAC 5-80-110 B)
3. The Caterpillar 3600 series diesel electric generator (IS-101) is to be used only for providing power at the Surry Power Station during interruption of service from the normal power supplier and for periodic testing. (9 VAC 5-80-110B and NSR Permit issued 9/27/93)

4. Emissions from the operation of the Westinghouse 191 and 251 combustion turbines (ES-1 and ES-2), rated at 281.3 MMBtu/hr and 363.3 MMBtu/hr respectively, shall not exceed the following:

	<u>lbs/MMBtu</u>	<u>lb/hr</u>
PM	0.20	
PM ₁₀	0.20	
SO ₂		1,701.7

(9 VAC 5-40-900 A.1.b, 9 VAC 5-40-930 A.1 and 9 VAC 5-80-110 B)

5. Visible Emissions from the Westinghouse 191 and 251 combustion turbines (ES-1 and ES-2) shall not exceed 20 percent opacity except for one six-minute period in any one hour of not more than 60% opacity. (9 VAC 5-40-80 and 9 VAC 5-80-110)
6. Nitrogen oxide (NO_x) emissions from the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall be controlled by the utilization of water injection when firing Natural Gas and No.2 distillate fuel oil. The four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall be provided with adequate access for inspection. (9 VAC 5-80-110 and Condition 1 of the NSR permit issued 10/30/2017)

7. Sulfur dioxide emissions from the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall be controlled by the use of low sulfur fuels.
(9 VAC 5-80-110 and Condition 2 of the NSR permit issued 10/30/2017)
8. Particulate matter (PM) emissions from the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (ES-3, ES-4, ES-5, ES-6) shall be controlled by the use of clean burning fuels and good combustion operating practices.
(9 VAC 5-80-110 and Condition 3 of the NSR permit issued 10/30/2017)
9. Volatile organic compounds and carbon monoxide emissions from the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (ES-3, ES-4, ES-5, ES-6) shall be controlled by the use of good combustion operating practices.
(9 VAC 5-80-110 and Condition 4 of the NSR permit issued 10/30/2017)
10. To comply with this permit and to avoid the applicability of 9 VAC 5-80 Permits – *Major Stationary Sources and Major Modifications Locating in Prevention of Significant Deterioration Areas*, the permitted facility while operating the inlet cooling systems for each of the four General Electric Model PG7111 simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall not exceed 137.2 tons of nitrogen oxide (NOx) emissions or 120.1 tons of sulfur dioxide (SO₂) emissions during the warm weather months of each year. The warm months are defined as the period from the first of April until the end of October of each year.
(9 VAC 5-80-110 and Condition 18 of the NSR permit issued 10/30/2017)
11. The combustion turbine inlet air cooling system and the wet compression system for each of the four (4) General Electric Model PG7111 turbines (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall only be operated if ambient air temperatures exceed 60 degrees Fahrenheit and the turbines are operating at a minimum of 60 MW (or above) electrical load.
(9 VAC 5-80-110 and Condition 10 of the NSR permit issued 10/30/2017)
12. Short-term emission limits from the operation of each of the Four (4) General Electric Model PG7111-EA simple cycle combustion turbines (CT) (ES-3, ES-4, ES-5, ES-6) while fired on natural gas shall not exceed the limits specified below (except during start-up, shutdown, malfunction conditions and low load emergency (LLE)):

PM	5.37×10^{-3} lbs/MMBtu	6.2 lbs/hr
PM10	5.37×10^{-3} lbs/MMBtu	6.2 lbs/hr
SO ₂	5.20×10^{-2} lbs/MMBtu	66.9 lbs/hr
VOC		2.0 lbs/hr
Carbon monoxide		26.2 lbs/hr
Nitrogen oxides	42 ppmdv @ 15% O ₂ (1-hour average)	196.9 lbs/hr

(9 VAC 5-80-110 and Condition 16 of the NSR permit issued 10/30/2017)

13. Short-term emission limits from the operation of each of the Four (4) General Electric Model PG7111-EA simple cycle combustion turbines (CT) (ES-3, ES-4, ES-5, ES-6) while fired on No. 2 distillate fuel oil shall not exceed the limits specified below (except during start-up, shutdown, malfunction conditions and low load emergency (LLE):

PM	1.23×10^{-2} lbs/10 ⁶ Btu	12.5 lbs/hr
PM10	1.23×10^{-2} lbs/10 ⁶ Btu	12.5 lbs/hr
SO ₂	0.307 lbs/10 ⁶ Btu	380.0 lbs/hr
VOC		6.3 lbs/hr
Carbon monoxide		28.5 lbs/hr
Nitrogen oxides (Fuel Bound Nitrogen less than 0.015% by weight)		
	* 65 ppm _{dv} @ 15% O ₂	320.4 lbs/hr
	(1-hour average)	
Nitrogen oxides (Fuel Bound Nitrogen less than or equal to 0.05% by weight)		
	* 77 ppm _{dv} @ 15% O ₂	380.0 lbs/hr
	(1-hour average)	
	*See Condition III.B.2.	
Lead		2.0×10^{-2} lbs/hr

(9 VAC 5-80-110, and Condition 17 of the NSR permit issued 10/30/2017)

14. The terms "start-up", "shutdown" and "low load emergency" shall be defined as follows:

Start-up: the period, for each start command, from the beginning of "warm-up" control mode or from the point a restart is issued for a running unit in shutdown mode and continuing to the end of the first hour of water injection logging for NO_x control.

Shutdown: the period, for each unit stop command, from when the control "shutdown" mode begins and continuing until no fuel is being combusted or until a restart command is received, whichever occurs first.

Low Load Emergency (LLE): during electric grid restoration, the combustion turbines may operate for an extended period of time at a low startup load. LLE mode may be tested once each calendar year. A successful test is considered to be a sustained generation from the turbines while operating in LLE mode. The turbines may be operated in LLE mode during a Pennsylvania-New Jersey-Maryland Interconnection, LLC (PJM) Independent System Operator's (ISO) declared emergency. [(Virginia Code 10.1-1307.02 and Virginia Code 10.1-1307.3 A.5)]

(9 VAC 5-80-110 and Condition 19 of the NSR Permit issued 10/30/2017)

15. Annual emissions from the permittee's Four (4) General Electric Model PG7111-EA Simple Cycle Combustion Turbine (CT) (ES-3, ES-4, ES-5, ES-6) shall not exceed the limits specified below:

PM	11.7 tons/yr
PM10	11.7 tons/yr
SO2	245.5 tons/yr
VOC	4.9 tons/yr
Carbon monoxide	36.0 tons/yr
Nitrogen oxides	246.0 tons/yr

(9 VAC 5-80-110 and Condition 20 of the NSR permit issued 10/30/2017)

16. The combined annual nitrogen oxides emission rate for a combination of natural gas and low sulfur fuel oil for the simple cycle combustion turbine (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall not exceed a total of 246 tons per year, calculated monthly as the sum of each consecutive 12 month period.

(9 VAC 5-80-110, and Condition 11 of the NSR permit issued 10/30/2017)

17. The four simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5, ES-6) combined shall not consume more than the following quantities of natural gas and No. 2 distillate oil fuel annually, calculated monthly as the sum of each consecutive 12 month period:

- Natural gas – 3,100,000,000 scf annually when firing natural gas 100% of the time.
- No. 2 distillate oil – $13,700,000 - 2,200,000 * (S - 0.25) / 0.05$ gallons annually when firing No. 2 distillate oil 100% of the time. Sulfur (S) is equal to % S by weight annual average, but not less than 0.25% when firing No. 2 distillate oil 100% of the time.
- No. 2 distillate oil – $13,700,000 - 2,200,000 * (FBN - 0.015) / 0.035$ gallons annually when firing No. 2 distillate oil 100% of the time. Fuel Bound Nitrogen (FBN) is equal to % FBN by weight annual average, but not less than 0.015% when firing No. 2 distillate oil 100% of the time.
- When the four simple cycle combustion turbines are firing both No. 2 distillate oil and natural gas during the period individually or in combination, the annual consumption shall be limited by the following equation to limit NOx and SO2 to less than 249.5 tons per year, where: $(\text{scf natural gas used} / 3,100,000,000 \text{ scf}) + (\text{gallons of No. 2 distillate oil used} / \text{No.2 distillate oil limit in gallons from b.})$ is less than or equal to 1.

* Distillate oil limit to be determined by c. above.

(9 VAC 5-80-110 and Condition 12 of the NSR Permit issued 10/30/2017)

18. The approved fuels for the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) are pipeline quality natural gas (primary fuel) and No. 2 distillate fuel oil (back-up fuel). Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396 Standard Specification for Fuel Oils or another approved ASTM method as incorporated in 40 CFR 60 by reference. A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110 and Condition 13 of the NSR Permit issued 10/30/2017)

19. The maximum sulfur content of the natural gas to be burned in the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall not exceed 0.06 weight percent per 100 dry standard cubic feet.
(9 VAC 5-80-110 and Condition 14 of the NSR Permit issued 10/30/2017)
20. The maximum sulfur content of the distillate oil to be burned in the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) shall not exceed 0.20 weight percent per shipment. The maximum Fuel Bound Nitrogen (FBN) content of the oil to be burned in the four (4) General Electric Model PG7111 simple cycle combustion turbine (CT) shall not exceed 0.05 weight percent per shipment.
(9 VAC 5-80-110 and Condition 15 of the NSR Permit issued 10/30/2017)
21. The Visible emissions (VE) from the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) exhaust stack shall not exceed ten (10) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity as determined by the Environmental Protection Agency's (EPA) Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, malfunction and low load emergency (LLE).
(9 VAC 5-80-110 and Condition 21 of the NSR Permit issued 10/30/2017)
22. Except as specified in this permit the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (ES-3, ES-4, ES-5, ES-6) are to be operated in compliance with all applicable requirements of 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines.
(9 VAC 5-80-110, and Condition 22 of 10/30/2017 permit)

B. Monitoring

1. The permittee shall monitor the sulfur content of the natural gas being fired in the four (4) General Electric Model PG7111-EA simple cycle combustion turbines (CT) (ES-3, ES-4, ES-5, ES-6), in accordance with subpart GG of the NSPS and the US EPA approved custom fuel monitoring schedule. These records shall be available on site for inspection by the DEQ and kept on file for the most current five-year period.
(9 VAC 5-80-110, and Condition 6 of the NSR Permit issued 10/30/2017)
2. Fuel monitoring for the nitrogen content of the natural gas fuel (required by NSPS Subpart GG) has been waived, by the Administrator of the US EPA in the US EPA custom fuel monitoring schedule, approved on July 2, 1998.
(9 VAC 5-80-110, and Condition 7 of the NSR Permit issued 10/30/2017)

3. The permittee shall test the No. 2 distillate fuel oil storage tanks that supply the four (4) General Electric Model PG7111 (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) to determine the sulfur and nitrogen content on each occasion that fuel is transferred (as referenced in Appendix A) to the storage tank, from any other source or fuel vendor. Fuel oil sulfur content shall be determined using ASTM D396 or another approved ASTM method incorporated in 40 CFR 60 by reference. Fuel oil nitrogen content shall be determined by following current ASTM procedures approved by the Administrator of the US EPA. Records of fuel oil sulfur and nitrogen content shall be available on site for inspection by DEQ personnel. They shall be kept on file for the most current five-year period. (9 VAC 5-80-110, 40 CFR 60 Subpart GG, and Condition 8 of the NSR Permit issued 10/30/2017)
4. The permittee shall perform visible emissions observations (VEO's) on the exhaust stack of each General Electric Model PG7111 - EA simple cycle combustion turbine (ES-3, ES-4, ES-5, and ES-6) according to the following schedule:

<u>Operating Schedule/History</u>	<u>Observation Frequency</u>
a. < 20 hrs / yr	No Evaluations Required
b. 20 hrs / yr < hours operated < 200 hrs / yr	Once per year
c. hours operated > 200 hrs / yr	Once every 200 hours

Each VEO shall be performed for a sufficient period of time to identify the presence of visible emissions. If no visible emissions are observed, no action shall be required. However, if visible emissions are observed, a visible emissions evaluation (VEE) shall be conducted using 40 CFR Part 60, Appendix A, Method 9 for a period of not less than 6-minutes. If the average opacity exceeds 10%, modifications and/or repairs shall be performed to correct the problem and the corrective measures shall be recorded. If such corrective action fails to remedy the opacity problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be performed for a period of at least 18 minutes to determine compliance with the opacity limits specified in Condition III.A.21 of this permit. The VEE observer shall be Method 9 certified.
(9 VAC 5-80-110 K)

5. The permittee shall perform visible emissions observations (VEO's) on the exhaust stacks of the Babcock & Wilcox Oil-Fired Boilers (Unit Ref. No.'s ES-101 and ES-102), the 4640 HP Caterpillar 3600 Diesel-Powered Backup Generator (IS-101), the three (3) 3950 HP Diesel-Powered Backup Generators (IS-102), and the Westinghouse model 191 and 251 combustion turbines (Unit Ref. No.'s ES-1 and ES-2) according to the following schedule:

<u>Operating Schedule/History</u>	<u>Observation Frequency</u>
a. < 20 hrs / yr	No Evaluations Required
b. 20 hrs / yr < hours operated < 200 hrs / yr	Once per year
c. hours operated > 200 hrs / yr	Once every 200 hours

Each VEO shall be performed for a sufficient period of time to identify the presence of visible emissions. If visible emissions are observed, a Method 9 certified observer shall conduct a VEO. If visible emissions do not appear to exceed ten percent (10%) opacity, no action shall be required. However, if the observed visible emissions appear to exceed ten percent opacity, a visible emission evaluation (VEE) shall be conducted using 40 CFR Part 60, Appendix A, Method 9 for a period of not less than 6-minutes. If the average opacity exceeds 20%, modifications and/or repairs shall be performed to correct the problem and the corrective measures shall be recorded. If such corrective action fails to remedy the opacity problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be performed for a period of at least 18 minutes to determine compliance with the opacity limits specified in Conditions III.A.2 and III.A.5 of this permit. The VEE shall be EPA Method 9 certified.
(9 VAC 5-80-110 K)

6. A continuous monitoring system shall be installed and operated (as approved by the DEQ) to indicate/determine and record the hourly fuel consumption (in pounds/second) and the ratio of water to fuel oil being fired in the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6). The system shall be accurate to within ± 5.0 percent and shall be approved by the DEQ. The monitoring system shall be operated at all times that water is being injected into the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT). The monitoring system shall be maintained and calibrated in accordance with the manufacturer's specifications. The Permittee shall maintain the records of the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) fuel oil consumption and ratio of water to fuel being fired at the site. These records shall be kept on file for the most current five year period and available for inspection by DEQ personnel.
(9 VAC 5-80-110, NSPS Subpart GG, and Condition 5 of the NSR Permit issued 10/30/2017)

7. Compliance Assurance Monitoring (CAM) - The permittee shall monitor, operate, calibrate and maintain the water injection controlling the simple cycle combustion (Ref. Nos. ES-3, ES-4, ES-5, and ES-6) turbines according to the following:

Monitoring, Frequency, Records	Performance Criteria	Indicator Range; Averaging Period
<ul style="list-style-type: none"> Continuously monitor fuel consumption and the water-to-fuel ratio. Records shall be collected by a computerized system. The system shall collect and retain all relevant data. 	<ul style="list-style-type: none"> Fuel and water flow meters to have minimum accuracy of 5% and to be calibrated prior to each stack testing event. 	<ul style="list-style-type: none"> Indicator range: Shown in the table below. Excursion: Water-to-fuel ratio outside the indicator range averaged over a 1-hour block period. Data points shall be collected every minute, at a minimum, averaged over a 1-hour block period.

Indicator Range for Water-to-Fuel Ratio	
Load, percent	Water-to-Fuel Ratio Indicator Range
50	Greater than 0.20
75	Greater than 0.30
100	Greater than 0.50

8. Compliance Assurance Monitoring (CAM) - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9. (9 VAC 5-80-110 E and 40 CFR 64.6(c))
9. Compliance Assurance Monitoring (CAM) - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. (9 VAC 5-80-110 E and 40 CFR 64.7(b))
10. Compliance Assurance Monitoring (CAM) - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the simple cycle combustion turbines are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions. (9 VAC 5-80-110 E and 40 CFR 64.7(c))

11. Compliance Assurance Monitoring (CAM) - Upon detecting an excursion or exceedance, the permittee shall restore operation of the simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5, and ES-6) (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9 VAC 5-80-110 E and 40 CFR 64.7(d)(1))
12. Compliance Assurance Monitoring (CAM) - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9 VAC 5-80-110 E and 40 CFR 64.7(d)(2))
13. Compliance Assurance Monitoring (CAM) - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Piedmont Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9 VAC 5-80-110 E and 40 CFR 64.7(e))

14. Compliance Assurance Monitoring (CAM) - If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the simple cycle combustion turbines for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
 - a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.(9 VAC 5-80-110 E and 40 CFR 64.8(a) and (b))
15. The continuous water to fuel ratio monitor required by this permit, the continuous monitoring data, and the quality assurance data shall, at the discretion of the Board, be used to determine compliance with the NO_x emission limits and/or relevant emission standards. Each monitor is subject to such data capture requirements and/or quality assurance requirements as specified in this permit and as may be deemed appropriate by the Board (40 CFR 60.13 and 40 CFR 60 Appendix B).
(9 VAC 5-80-110 and Condition 26 of the NSR Permit issued 10/30/2017)

C. Recordkeeping

1. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Regional Office. These records shall include, but are not limited to:
 - a. The electrical generation of the facility while the inlet cooling systems are operating.
 - b. The actual NO_x and SO₂ emissions in proportion to the electrical generation of the facility while the inlet cooling systems are operating during the warm months of each year. The NO_x calculations shall be based on the most recent emission tests from similar units (same manufacturer and model number). The SO₂ calculations may be based on fuel sulfur content and actual quantities of fuel burned or actual electrical generation while the inlet cooling systems are operating during the warm months of each year.
 - c. Hourly, monthly, and annual consumption of natural gas and fuel oil. Annual consumption to be calculated monthly as the sum of each consecutive 12 month period. Ratio of water to fuel for each fuel being fired shall accompany the hourly consumption record.
 - d. Tests of the sulfur content of natural gas being fired in accordance with Subpart GG of the NSPS and the US EPA custom fuel monitoring schedule, approved on July 2, 1998.

- e. Tests for the sulfur and nitrogen content of all shipments (as defined in Appendix A) of fuel oil delivered to the facility.
- f. Calculations to demonstrate compliance with the fuel limitation requirements for any annual period when fuel oil or natural gas was fired calculated monthly as the sum of each consecutive 12 month period.
- g. Monthly and annual calculations of nitrogen oxides and sulfur dioxide emissions based on monitoring of fuel consumption, annual emissions calculated monthly as the sum of each consecutive 12 month period.
- h. Results of all stack tests, visible emission evaluations and performance evaluations of the water injection system.
- i. Continuous monitoring system calibrations and calibration checks.
- j. Scheduled and unscheduled maintenance of the turbines and associated monitoring systems.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 27 of the NSR Permit Issued 10/30/2017)

- 2. A record of each visible emissions observation and visible emissions evaluation shall be maintained and shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer.
(9 VAC 5-80-110 K)
- 3. Compliance Assurance Monitoring (CAM) Recordkeeping - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(9 VAC 5-80-110 E)
- 4. Maintain on-site and submit, if requested by the Administrator, the biennial tune-ups required under 40 CFR Part 63 Subpart JJJJJJ.
(9 VAC 5-80-110 E, 9 VAC 5-50-50, 40 CFR 63.11223 and 40 CFR 64.9(b))

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing for the four (4) General Electric Model PG7111 simple cycle combustion turbines (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110, and Condition 9 of the NSR permit issued 10/30/2017)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Regulated Pollutant	Reference Method
VOC	EPA Methods 18, 25, 25a
NO _x	EPA Method 7
SO ₂	Subpart GG fuel sampling
CO	EPA Method 10
PM/PM ₁₀	EPA Methods 5, 202 / 17, 201A
Visible Emissions	EPA Method 9

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard. Alternative test methods may be used upon written approval from the Director.
(9 VAC 5-80-110)

3. The continuous fuel to water ratio monitoring system shall be operational prior to conducting performance tests under 9 VAC 5-50-30 and 9 VAC 5-60-30. Performance evaluations of the continuous fuel to water ratio monitoring system during the initial commissioning of the monitoring system shall take place within 30 days prior to or during the performance tests under 9 VAC 5-50-30 and 9 VAC 5-60-30. The DEQ Piedmont Regional Office (PRO) shall be furnished with two copies of the report of the performance evaluations within 60 days of the evaluation.
(9 VAC 5-80-110 and Condition 23 of the NSR permit issued 10/30/2017)
4. The permittee may use representative testing between the four simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5 and ES-6) at Dominion – Gravel Neck (Reg. No. 50336) and the four simple cycle combustion turbines (Ref. Nos. ES-1, ES-2, ES-3 and ES-4) at Dominion – Darbytown (Reg. No. 50997) under the following conditions:
 - a. The permittee demonstrates that each of the combustion turbines at both facilities are low mass emission units as defined in 40 CFR 72.2 and 40 CFR 75.19 (a)(1)(i).

- b. The permittee demonstrates that each of the units in the group (both facilities) are identical according to the following criteria in 40 CFR 75.19 (c)(1)(iv)(B):
 - 1. Same size based on maximum rated heat input
 - 2. Manufacturer and model
 - 3. Same history of modification (having the same controls installed, same types of burners and have undergone major overhauls at the same frequency (based on hours of operation)
 - 4. Under similar operating conditions, the stack or turbine outlet temperature of each unit must be within 50 plus or minus degree Fahrenheit of the average stack or turbine outlet temperature for all of the units.
- c. If the permittee cannot meet the criteria in 40 CFR 75.19 (c)(1)(iv)(B)(1), then the group of low mass emission units is not considered an identical group of units and individual appendix E testing of each unit is required as described by 40 CFR 75.19 (c)(1)(iv)(B)(4).
- d. The permittee shall test three (3) of the eight (8) identical combustion turbines each test cycle. The eight identical units consist of the four simple cycle combustion turbines (Ref. Nos. ES-3, ES-4, ES-5 and ES-6) at Dominion Gravel Neck (Reg. No. 50336) and the four simple cycle combustion turbines (Ref. Nos. ES-1, ES-2, ES-3 and ES-4) at Dominion – Darbytown (Reg. No. 50997). The testing shall be performed at least once every 20 calendar quarters in accordance with 40 CFR Part 75.19(c)(1)(iv). The permittee shall conduct the low mass emission (LME) tests in a selection process so that no individual units goes untested before repeating testing on the same unit in subsequent years.
(9 VAC 5-80-110)

E. Reporting

- 1. The permittee shall submit quarterly excess emission reports to the Piedmont Regional Office (PRO) of the DEQ within 30 days after the end of each calendar quarter or semi-annually as needed. Details of the quarterly reports are to be arranged with the Piedmont Regional Office (PRO). Each quarterly report shall cover, at a minimum, the dates included in the calendar quarter and provide the following information for each day in the quarter, report each hour during which the water to fuel ratio fell below that required to demonstrate compliance with the nitrogen oxides permit limit, copy of the written notification and corrective action taken. The report shall include the following for each period described above: start time, duration, actual and required water-to-fuel ratio, fuel type and consumption rate, nitrogen content of fuel oil (if oil-fired), ambient temperature and the four (4) General Electric Model PG7111 simple cycle combustion turbine (CT) (Ref. Nos. ES-3, ES-4, ES-5, ES-6) load. If, during the calendar quarter, there are no times when the water to fuel injection ratio fell below that required to demonstrate compliance, the permittee shall state in the quarterly report that no such events occurred during the affected calendar quarter.
(9 VAC 5-80-110 and Condition 29 of the NSR permit issued 10/30/2017)

2. Compliance Assurance Monitoring (CAM) Reporting - the permittee shall submit CAM reports as part of the Title V quarterly or semi-annual monitoring reports required by Condition III.E.1. and General Condition C.3. of this permit to the Director, Piedmont Regional Office. Such reports shall include at a minimum:
 - a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9 VAC 5-80-110 F and 40 CFR 64.9(a))

3. Pursuant to 40 CFR 60.4, the permittee shall submit copies of all requests, reports, applications, submittals and other communications to both EPA and the Director, Piedmont Regional Office. The EPA copies shall be forwarded to:

Air Enforcement Branch, Mail Code 3AP12
US EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-110 F)

4. The permittee shall report to the Director, Piedmont Regional Office by November 30 of each year the actual emissions of NO_x and SO₂ emitted during the warm months of each year.
(9 VAC 5-80-110 and Condition 28 of the NSR permit issued on 10/30/2017)

F. MACT, Subpart JJJJJJ (40 CFR 63, Subpart JJJJJJ)

General Compliance Requirements

1. The two (2) Babcock & Wilcox distillate oil-fired boilers (ES-101 and ES-102), each rated at 90.6 MMBtu/hr shall comply with the applicable requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ as listed in III F. Conditions 1 through 2.
(9 VAC 5-80-110 and 40 CFR 63.11193)

Limitations

2. The two (2) Babcock & Wilcox distillate oil-fired boilers (ES-101 and ES-102), each rated at 90.6 MMBtu/hr shall comply with the requirements in Subpart JJJJJJ, 40 CFR 63.11223(b) to conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (1) through (7) of this section. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
 - (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).
 - (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).
 - (4) Optimize total emission of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
 - (5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
 - (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
 - (7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
- (9 VAC 5-80-110 and 40 CFR 63.11223(b)(1-7))

**IV. Fuel Burning Equipment Requirements – Surry & Gravel Neck Power Stations –
Emergency and Non-Emergency Engines and Diesel Fire Pumps (IS-8, IS-101, IS-102a,
IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-
128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS-131, IS-132, ES-135)**

A. Limitations

1. Fuel Burning Equipment Requirements – Emergency and Non-Emergency Engines and Fire Pumps – Emission Controls – Emissions from the engines and fire pump (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS-131, IS-132, ES-135) shall be controlled by proper operation and maintenance of the units. The emissions units shall be provided with adequate access for inspection.
(9 VAC 5-80-110)
2. Fuel Burning Equipment Requirements – Emergency and Non-Emergency Fire Pump - Emission Controls – The emergency engines and fire pump (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS-131, are designed to use #2 fuel oil. If it becomes necessary to change the type of fuel the Board must approve the change prior to its use.
(9 VAC 5-80-110)
3. Fuel Burning Equipment Requirements – Emergency Generator and - Emission Controls – The Kohler propane generators (ES-132 and ES-135) are designed to use propane. If it becomes necessary to change the type of fuel the Board must approve the change prior to its use.
(9 VAC 5-80-110)
4. Fuel Burning Equipment Requirements Emergency Engines – The Caterpillar 3515 C emergency engine (ES-10) shall operate no more than 500 hours/yr, calculated as the sum of each consecutive 12-month period.
(9 VAC 5-80-110)
5. Fuel Burning Equipment Requirements – Visible emissions from the existing engines (ES-8, IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-107a, IS-107b, IS-107c, IS-132) shall not exceed 20 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-40-80 and 9 VAC 5-80-110 B)
6. Fuel Burning Equipment Requirements – Visible emissions from the new and modified engines (IS-105, IS-128, IS-130, ES-103, ES-108, IS-132, IS-135, ES-9 and ES-10) shall not exceed 20 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-8-110 B)

B. Monitoring

1. Fuel Burning Equipment Requirements – Emergency and Non-Emergency Engines and Fire Pump - Monitoring – Visible emissions checks shall be conducted for the engines and fire pump (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS131, IS-132 and 135) according to the following schedule:

Operating Schedule/History	Observation Frequency
<20 hrs /yr*	No Evaluations Required
20 hrs / yr < hours operated < 200 hrs/yr*	Once per year*
*year means calendar year	

Each VEO shall be performed for a sufficient period of time to identify the presence of visible emissions. If no visible emissions are observed, no action shall be required.

The permittee shall maintain a log noting: 1) all associated emergency generators and fire pumps from which visible emissions occurred, and 2) whether the visible emissions were present for these generators and fire pumps. If visible emissions are observed, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted. The VEE shall be conducted for a minimum period of six minutes. If any of the observations exceed the applicable opacity limit, the observation period shall continue until a total of sixty minutes of observation has been completed. A Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner such that no above normal visible emissions are present; the emissions unit is operating at normal operating conditions or has been shut down; and the cause and corrective measures taken are recorded.
(9 VAC 5-80-110)

2. Fuel Burning Equipment Requirements – Emergency and Non-Emergency Engines and Fire Pump - Monitoring – The permittee shall keep a log of the hours of operation on a monthly basis for the engines (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS-131, IS-132, IS-135).
(9 VAC 5-80-110)

C. Recordkeeping and Reporting

1. Fuel Burning Equipment Requirements – Emergency and Non-Emergency and Fire Pump – Recordkeeping and Reporting – The permittee shall maintain records of all emission data, fuel data, maintenance activity and operating parameters necessary to demonstrate compliance with the requirements of this permit for the emergency engines and the fire pump (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS-131, IS-132, IS-135). This includes records of the annual hours of operation on a monthly basis and the log of the results of the monthly, if required (see Section B, Monitoring) visible emissions observations and any corrective action taken.
(9 VAC 5-80-110)

D. Testing

1. Fuel Burning Equipment Requirements – Emergency and Non-Emergency Engines and Fire Pump – Testing – If testing of the engines or the fire pumps (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, IS-130, ES-8, ES-9, ES-10, ES-103, ES-108, IS-131, IS-132, IS-135) is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

E. MACT, Subpart ZZZZ (40 CFR 63, Subpart ZZZZ)

General Compliance Requirements

1. The emergency and non-emergency engines (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, ES-8, IS-131, IS-132, IS-135) shall comply with the applicable requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ as listed in IV.E. Conditions 1 through 6.
(9 VAC 5-80-110 and 40 CFR 63.6595)
2. The emergency and non-emergency engines and the fire pump (IS-130, ES-103, ES-108, ES-9, ES-10) that meet any of the requirements of 40 CFR 63.6590(c)(1) through (7) must meet the requirement of this part (40 CFR 63, Subpart ZZZZ) by meeting the requirements of 40 CFR 60 Subpart IIII as listed in IV.F. Condition 1 through 8. In order for the emergency stationary engine to be considered an emergency stationary reciprocating internal combustion engine (RICE) under 40 CFR 63, Subpart ZZZZ, the operation of the emergency stationary RICE are limited to emergency situations as specified in 40 CFR §63.6640(f)(1); maintenance checks and readiness testing for a limited number of hours per year as specified in 40 CFR §63.6640(f)(2)(i); and certain non-emergency situations for a limited number of hours per year as specified in 40 CFR §63.6640(f)(3). If the unit is not operated in accordance with 40 CFR §63.6640(f)(1), §63.6640(f)(2)(i) or §63.6640(f)(3), the emergency stationary engine will not be considered an emergency stationary RICE under 40 CFR Part 63, Subpart ZZZZ and must meet the emissions standards and other applicable requirements for a non-emergency engines.
(9 VAC 5-80-110, 40 CFR 63.6590(c) and 40 CFR 63.6640(f))

Limitations

3. The emergency and non-emergency engines (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, ES-8, IS-131, IS-132, IS-135) shall comply with the work practice standard in Subpart ZZZZ Table 2d.4 that applies to each generator or fire pump at all times. The Subpart ZZZZ Table 2d.4 requirements are as follows:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first;¹

- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary

Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

¹ Sources have the option to utilize an oil analysis program as described in section 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this Subpart.

(9 VAC 5-80-110 and 40 CFR 63.6603(a))

Monitoring

- 4. The emergency and non-emergency engines (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, ES-8, IS-131, IS-132, IS-135) and after-treatment control devices (if any) must operate and maintain according to the manufacturer's emission-related written instructions or the source must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
(9 VAC 5-80-110 and 40 CFR 63.6625(e))
- 5. The owner or operator of the emergency and non-emergency engines (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, ES-8, IS-131, IS-132, IS-135) must install a non-resettable hour meter if one is not already installed.
(9 VAC 5-80-110 and 40 CFR 63.6625(f))

Recordkeeping

- 6. The owner or operator of the emergency and non-emergency engines and the fire pump (IS-8, IS-101, IS-102a, IS-102b, IS-102c, IS-103, IS-104a, IS-104b, IS-104c, IS-105, IS-107a, IS-107b, IS-107c, IS-128, ES-8, IS-131, IS-132, IS-135) must keep records of the emission and operating limitations, maintenance conducted on the engines, hours of operation recorded through the non-resettable hour meter.
(9 VAC 5-80-110 and 40 CFR 63.6655(a)(e)(f))

F. NSPS, Subpart IIII (40 CFR 60, Subpart IIII)

Limitations

- 1. The emergency engines (ES-103, IS-130) must meet the applicable requirements of 40 CFR 60.4205 (b).
(9 VAC 5-80-110 and 40 CFR 60.4205(b))
- 2. The non-emergency engines (ES-9) must meet the applicable requirements of 40 CFR 60.4202 (a)(2).
(9 VAC 5-80-110 and 40 CFR 60.4202(a)(2))

3. The fire pump (ES-108) must meet the applicable requirements of 40 CFR 60.4205 (c).
(9 VAC 5-80-110 and 40 CFR 60.4205(c))
4. The owner or operator of the engines (IS-130, ES-103, ES-108, ES-9, ES-10) as specified in 40 CFR 60, Subpart IIII must comply with the following applicable requirements in 40 CFR 60.4211(a)(1)(2)(3).
 - a. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - b. Change only those emission-related settings that are permitted by the manufacturer; and
 - c. Meet the requirements of 40 CFR parts 89, 94 and/or 1068 as they apply.
(9 VAC 5-80-110 and 40 CFR 60.4211(a)(1)(2)(3))
5. The owner or operator of the engines (IS-130, ES-103, ES-108, ES-9, ES-10) must comply with the applicable general provisions of Subpart A of NSPS Part 60 that are listed in 40 CFR 60 Subpart IIII, Table 8.
(9 VAC 5-80-110 and 40 CFR 60 Subpart IIII, Table 8)
6. The owner or operator of the engines (IS-130, ES-103, ES-108, ES-9, ES-10) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.
(9 VAC 5-80-110 and 40 CFR 80.510(b))

Monitoring

7. The owner or operator of an emergency stationary CI internal combustion engine (IS-130, ES-10, ES-103, ES-108) that does not meet the standards applicable to non-emergency engines, must install a non-resettable hour meter prior to startup of the engine.
(9 VAC 5-80-110 and 40 CFR 60.4209(a))

Recordkeeping

8. The owner or operator of the engines (IS-130, ES-103, ES-108, ES-9, ES-10) must comply with the applicable record keeping requirements in 40 CFR 60.4214(b).
(9 VAC 5-80-110 and 40 CFR 60.4214(b))

V. Facility Wide Conditions

A. Monitoring

1. At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

(9 VAC 5-80-110 and Condition 32 of NSR permit issued 10/30/2017)

B. Recordkeeping

1. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

- a. Records of operator training.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.

(9 VAC 5-80-110 and Condition 27 of the 10/30/2017 Permit)

2. The permittee shall keep a copy of this permit on the premises of the facility to which it applies.

(9 VAC 5-80-110 and Condition 37 of the 10/30/2017 Permit)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

VI. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Pollutant Emitted (9 VAC 5-80-720 B.)	Rated Capacity (9 VAC 5-80-720 C.)	Reg. Citation
Surry Power Station				
IS-108	Aboveground Fuel Oil Storage Tank	VOC	210,000 gallons	B
IS-109	(2) Underground Fuel Oil Storage Tanks	VOC	20,000 gallons/each	B
IS-110	Fuel Oil Storage Tanks	VOC	1 @ 1200 gallons 1 @ 1000 gallons 6 @ 550 gallons	B
IS-111	Fuel Oil Storage Tank (Emergency Water Pumps)	VOC	4800 gallons	B
IS-112	Fuel Oil Storage Tanks (Administration Building, ISFSI, and Security Emergency Generators)	VOC	1 @ 1500 gallons 1 @ 500 gallons 1 @ 285 gallons 1 @ 5 gallons	B
IS-113	Gasoline Storage Tank	VOC	4000 gallons	B
IS-115	Lubricating Oil Systems	VOC	1 @ 22000 gallons 2 Reservoirs (with 3 bowlers each) @ 20,500 gallons each	B
IS-116	Used Lubricating Oil Systems	VOC	1 @ 22000 gallons 1 @ 10,000 gallons 1 @ 1070 gallons	B
IS-117	Sulfuric Acid (99%) Tank	Sulfuric Acid Fumes	9401 gallons	B
IS-118	Hydrazine (35%) Tanks	Hydrazine	2 @ 345 gallons each	B
IS-119	Hydrazine (1.5%) Tanks	Hydrazine	2 @ 564 gallons each	B
IS-121	Plant Welding			A
IS-122	Degreasing Operations	VOC	2 @ 150 gallon each	B
IS-123	Gravel Roads	PM ₁₀		B
IS-124	Plant Painting	VOC		A
IS-125	Grit Blasting	PM ₁₀		B

Dominion Gravel Neck/Surry Power Stations

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Emission Unit No.	Emission Unit Description	Pollutant Emitted (9 VAC 5-80-720 B.)	Rated Capacity (9 VAC 5-80-720 C.)	Reg. Citation
IS-126	Radwaste Facility	VOC	500 SCFM Total Tank Vent System	B
IS-127	Paint Shop Solvent Recovery System	VOC	15 gallons/3.5 hrs	B
IS-133	B5B Diesel powered Water Pump (Skid-mounted)	NOx	78 HP	B
IS-134	B5B Diesel-powered Water Pump (Skid-mounted)	NOx	78 HP	B
Gravel Neck Combustion Turbine Station				
IS-1	Gravel Roads	PM ₁₀	N/A	B
IS-2	Degreaser	VOC	N/A	B
IS-3	Units 3, 4, 5 and 6 Glycol Heat Exchanger Systems (8 tanks)	Ethylene Glycol CAS 107211	4 each 50 gallon 4 each 125 gallon	B
IS-4	Unit 1&2 Turbine Lube Oil tanks (4 tanks)	VOC	750 gal 1500 gal 1750 gal 3300 gal.	B
IS-5	Unit 2 starter motor fuel oil tank	VOC	203 gal	B
IS-6	Oil/Water Separator System (3 tanks)	VOC	350 gal., 350 gal, 2,000 gal.	B
IS-7	Units 3, 4, 5 and -6 Turbine Lube Oil System (12 tanks)	VOC	(4) 250 gal., (4) 500 gal., and (4) 2000 gal	C
IS-9 (Tank A)	Distillate Oil Storage Tank	VOC	3,177,000 gal	A
IS-10 (Tank B)	Distillate Oil Storage Tank	VOC	3,177,000 gal	A
IS-11	Unit 1 & 2 No. 2 Fuel Oil Storage Tank C	VOC	310,230 gallons	B
IS-12	Mobile Oil Tank	VOC	500 gal	C
IS-13	Unit 1 & 2 emergency generator fuel oil tank	VOC	171 gal	C
IS-14	Unit 1 Starter Diesel Fuel Tank	VOC	500 gal	C
IS-15	Unit 4&5 Diesel Fuel Tank	VOC	3,500 gal	C
Regulatory citation explanations: A - 9 VAC 5-80-720A - Listed Insignificant Activity B - 9 VAC 5-80-720B - Insignificant due to emission levels C - 9 VAC 5-80-720C - Insignificant due to size of emission unit				

VII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60, Subpart Dc	Small Industrial-Commercial-Institutional Steam Generating Units	This Subpart does not apply to the oil-fired boilers because they were constructed prior to the applicability date of June 9, 1989.
40 CFR 60, Subpart GG	Stationary Gas Turbines	This Subpart does not apply to the older combustion turbines (ES1 and ES2) because they were constructed prior to the applicability date of October 3, 1977.
40 CFR 60, Subpart Kb	Volatile Organic Liquid Storage Vessels Standards	This Subpart does not apply to the distillate oil storage tanks because the fuel has a maximum true vapor pressure of less than 15 kPa.
40 CFR 60, Subpart IIII	Stationary Compression Ignition Internal Combustion Engines Standards	This Subpart does not apply to the emergency generators because they were constructed prior to the applicability date of July 11, 2005.
40 CFR 60, Subpart KKKK	Standards of Performance for Stationary Combustion Turbines	This Subpart does not apply to the combustion turbines since the construction of these units commenced before February 18, 2005.
40 CFR 63, Subpart YYYY	National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	This Subpart does not apply to the combustion turbines since they are considered existing units and are exempt pursuant to 40 CFR 63.6090(b)(4).
9 VAC 5-40-5220 (Rule 4-37)	VOC Standards for Petroleum Liquid Storage and Transfer Operations	This standard does not apply to the fuel oil storage tanks because it is not applicable to units storing petroleum liquids with a vapor pressure less than 1.5 pounds per square inch.
40 CFR 60.334 b	Monitoring of Operations	NSPS Subpart GG requires monitoring of the nitrogen content of the fuel being fired in the turbines. This requirement has been waived for natural gas by the US EPA Administrator in the US EPA Custom Fuel Monitoring schedule, approved July 2, 1998.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

VIII. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to § 114(a)(3) and § 504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.
7. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following address:
R3_APD_Permits@epa.gov
(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. [Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40.] The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Piedmont Regional Office.

(9 VAC 5-20-180 C)

1. The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the 14 day written notification.
2. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are listed below:
 - a. General Electric Model PG7111-EA simple cycle combustion turbines (ES-3, ES-4, ES-5, and ES-6)
3. Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9 VAC 5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the board semiannually. All semi-annual reports shall be postmarked by the 30th day following the end of each calendar semi-annual period (July 30th and January 30th).
4. All reports shall include the following information:
 - a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B.6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
 - d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within 14 days of the discovery of the malfunction.

(9 VAC 5-20-180 C and 9 VAC 5-50-50)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

(9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.

(9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follow:

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

V. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

W. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

X. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).

(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

IX. Cross-State Air Pollution (CSAPR) Requirements

A. Cross State Air Pollution Rule (CSAPR)

1. **Cross State Air Pollution Rule (CSAPR)** – The permittee shall comply with all applicable cross-state air pollution rule (CSAPR) requirements (40 CFR Part 97, Subparts AAAAA – DDDDD) by the compliance date specified in 40 CFR 97, Subparts AAAAA – DDDDD, as amended.

(40 CFR Part 97, Subparts AAAAA – DDDDD and 9 VAC 5-80-110)

2. **CSAPR** – The Transport Rule (TR) subject units, and the unit-specific monitoring provisions, at this source are identified in the following table. These units are subject to the requirements for the TR NO_x Annual Trading Program (40 CFR Part 97, Subpart AAAAA), TR NO_x Ozone Season Trading Program (40 CFR Part 97, Subpart BBBB), and TR SO₂ Group 1 Trading Program (40 CFR Part 97, Subpart CCCCC).

Unit ID: Gravel Neck CT Station, Units ES-3, ES-4, ES-5, ES-6					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, subpart B (for SO ₂ monitoring) and 40 CFR Part 75, subpart H (for NO _x monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E
SO ₂				X	
NO _x				X	
Heat input				X	

(40 CFR Part 97, Subpart AAAAA – CCCCC and 9 VAC 5-80-110)

3. **CSAPR** –The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO_x Annual Trading Program), 97.530 through 97.535 (TR NO_x Ozone Season Trading Program), and 97.630 through 97.635 (TR SO₂ Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.
(40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)
4. **CSAPR** –Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at:<https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources>.
(40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)
5. **CSAPR** –Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program), and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at: <https://www.epa.gov/airmarkets/part-75-petition-responses>.
(40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)
6. **CSAPR** – Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program), and/or 97.630 through 97.634 (TR SO₂ Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program), and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at <https://www.epa.gov/airmarkets/part-75-petition-responses>.
(40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)
7. **CSAPR** – The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program), and 97.630 through 97.634 (TR SO₂ Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add or change this unit's monitoring system description.
(40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)

8. CSAPR – TR NO_x Annual Trading Program requirements (40 CFR 97.406)

a. Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

b. Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_x Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

c. NO_x emissions requirements.

(1) TR NO_x Annual emissions limitation.

(a) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall hold, in the source's compliance account, TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual units at the source.

(b) If total NO_x emissions during a control period in a given year from the TR NO_x Annual units at a TR NO_x Annual source are in excess of the TR NO_x Annual emissions limitation set forth in paragraph (c)(1)(a) above, then:

- (i) The owners and operators of the source and each TR NO_x Annual unit at the source shall hold the TR NO_x Annual allowances required for deduction under 40 CFR 97.424(d); and
 - (ii) The owners and operators of the source and each TR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (2) TR NO_x Annual assurance provisions.
- (a) If total NO_x emissions during a control period in a given year from all TR NO_x Annual units at TR NO_x Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying—
 - (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (B) The amount by which total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the state for such control period exceed the state assurance level.
 - (i) The owners and operators shall hold the TR NO_x Annual allowances required under paragraph (c)(2)(a) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (ii) Total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

- (iii) It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Annual units at TR NO_x Annual sources in the state during a control period exceeds the common designated representative's assurance level.
- (iv) To the extent the owners and operators fail to hold TR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(a)(i) through (iii) above,
 - (a) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (b) Each TR NO_x Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(a) through (c) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

- (a) A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (b) A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (a) A TR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(a) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for such control period or a control period in a prior year.
- (b) A TR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(b)(i) and (2)(a) through (c) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

- (5) Allowance Management System requirements. Each TR NO_x Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.
 - (6) Limited authorization. A TR NO_x Annual allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (a) Such authorization shall only be used in accordance with the TR NO_x Annual Trading Program; and
 - (b) Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
 - (7) Property right. A TR NO_x Annual allowance does not constitute a property right.
- d. Title V permit revision requirements.
- (1) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.
 - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- e. Additional recordkeeping and reporting requirements.
- (1) Unless otherwise provided, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

- (a) The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO_x Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
 - (b) All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
 - (c) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Annual Trading Program.
 - (2) The designated representative of a TR NO_x Annual source and each TR NO_x Annual unit at the source shall make all submissions required under the TR NO_x Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR parts 70 and 71.
- f. Liability.
- (1) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual source or the designated representative of a TR NO_x Annual source shall also apply to the owners and operators of such source and of the TR NO_x Annual units at the source.
 - (2) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual unit or the designated representative of a TR NO_x Annual unit shall also apply to the owners and operators of such unit.
- g. Effect on other authorities.
- No provision of the TR NO_x Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Annual source or TR NO_x Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.
- (40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)

9. CSAPR – TR NO_x Ozone Season Trading Program Requirements (40 CFR 97.506)

a. Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

b. Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO_x Ozone Season allowances under 40 CFR 97.511 (a)(2) and (b) and 97.512 and to determine compliance with the TR NO_x Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

c. NO_x emissions requirements.

(1) TR NO_x Ozone Season emissions limitation.

(a) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season units at the source.

(b) If total NO_x emissions during a control period in a given year from the TR NO_x Ozone Season units at a TR NO_x Ozone Season source are in excess of the TR NO_x Ozone Season emissions limitation set forth in paragraph (c)(1)(a) above, then:

- (i) The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall hold the TR NO_x Ozone Season allowances required for deduction under 40 CFR 97.524(d); and
- (ii) The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(2) TR NO_x Ozone Season assurance provisions.

- (a) If total NO_x emissions during a control period in a given year from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—
 - (i) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (ii) The amount by which total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state for such control period exceed the state assurance level.
- (b) The owners and operators shall hold the TR NO_x Ozone Season allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

- (c) Total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).
- (d) It shall not be a violation of 40 CFR part 97, subpart BBBBBB or of the Clean Air Act if total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.
- (e) To the extent the owners and operators fail to hold TR NO_x Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(a) through (c) above,
 - (i) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (ii) Each TR NO_x Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(a) through (c) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.

(3) Compliance periods.

- (a) A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (b) A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (a) A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(a) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for such control period or a control period in a prior year.

- (b) A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(b)(i) and (2)(a) through (c) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
 - (5) Allowance Management System requirements. Each TR NO_x Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.
 - (6) Limited authorization. A TR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (a) Such authorization shall only be used in accordance with the TR NO_x Ozone Season Trading Program; and
 - (b) Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
 - (7) Property right. A TR NO_x Ozone Season allowance does not constitute a property right.
- d. Title V permit revision requirements.
- (1) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Ozone Season allowances in accordance with 40 CFR Part 97, subpart BBBBB.
 - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- e. Additional recordkeeping and reporting requirements.
- (1) Unless otherwise provided, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or

electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

- (a) The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.
 - (b) All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.
 - (c) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Ozone Season Trading Program.
- (2) The designated representative of a TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall make all submissions required under the TR NO_x Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR parts 70 and 71.
- f. Liability.
- (1) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season source or the designated representative of a TR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the TR NO_x Ozone Season units at the source.
 - (2) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season unit or the designated representative of a TR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.
- g. Effect on other authorities.
- No provision of the TR NO_x Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Ozone Season source or TR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(40 CFR Part 97, Subpart AAAAA – DDDDD and 9 VAC 5-80-110)

10. CSAPR - TR SO₂ Group 1 Trading Program requirements (40 CFR 97.606) –

a. Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

b. Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

c. SO₂ emissions requirements.

(1) TR SO₂ Group 1 emissions limitation.

(a) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.

(b) If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(a) above, then:

- (i) The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and
- (ii) The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(a) TR SO₂ Group 1 assurance provisions.

- (a) If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
 - (i) The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and
 - (ii) The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
- (b) The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(a) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
- (c) Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for

such control period, of the state SO₂ Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).

- (d) It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.
- (e) To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(a) through (c) above,
 - (i) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (ii) Each TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(a) through (c) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

- (a) A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
- (b) A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (a) A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(a) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.
- (b) A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(b)(i) and (2)(a) through (c) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

- (5) Allowance Management System requirements. Each TR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.
 - (6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:
 - (a) Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and
 - (b) Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
 - (7) Property right. A TR SO₂ Group 1 allowance does not constitute a property right.
- d. Title V permit revision requirements.
- (1) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.
 - (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).
- e. Additional recordkeeping and reporting requirements.
- (1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
 - (a) The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements

in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

- (b) All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
 - (c) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO₂ Group 1 Trading Program.
 - (2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR parts 70 and 71.
- f. Liability.
- (1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.
 - (2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.
- g. Effect on other authorities.
- No provision of the TR SO₂ Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(40 CFR Part 97, Subpart AAAAA – CCCCC and 9 VAC 5-80-110)

Appendix A

No. 2 Fuel Oil Transfers – Gravel Neck Power Station

Station Process: The station has two 3,177,000 gallon fuel oil tanks (Tanks A and B/Ref. Nos. IS-9 and IS-10) that supply ES-3, ES-4, ES-5 and ES-6. Tanks A and B receive fuel oil by truck transfer. Prior to receiving oil, one of the fuel oil tanks is identified as the receiving tank and is isolated from service per the station's operating procedure. The tank is valved and tagged closed until the "shipment" is completed and the oil is sampled from the unit's storage tank after each addition of fuel to the tank per 40 CFR 60.334 (i) and analyzed as outlined in condition III.B.3 of this permit.

Once the station reviews the fuel oil analyses and ensures it meets the fuel oil quality standards listed in condition III.A.21 of this permit, then the fuel oil tank is released for service. This process is followed until the entire oil shipment (multiple trucks) is transferred to the receiving tank. Copies of the analyses along with the truck manifests and associated volumes are maintained at the station.

Fuel Oil "Shipment" Definition: A 'shipment' or 'transfer' is a series of truck transport load of oil. The source of oil may be a Dominion or vendor owned source. Prior to any fuel movement within the Dominion system, the Dominion Fuels Contracts Group assures the oil meets each station's fuel oil quality regulatory requirements.